



12/035/104  
6/19/02

LI: (1) ("5639244") PN: US 5639244 A Tag: S, T1 Doc: 1/1 (S...)

DOCUMENT-IDENTIFIER: US 5639244 A  
TITLE: Bi-colored teaching and fashion shoels

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DWIKU:  
5639244

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LI: (1) ("5639244") PN: US 5639244 A Tag: S, T1 Doc: 1/1 (S...)

Document ID	Kind Codes	Source
1	US 5639244 A	USPAT

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LI: (1) ("5639244") PN: US 5639244 A Tag: S, T1 Doc: 1/1 (S...)

**United States Patent** (39) Patent Number: 5,639,244  
Section: (42) Date of Patent: June 17, 1997

**54** RECOLORED TRACKING AND HARBOR  
SHOELACES AND METHOD OF  
SABICATING

**57** Abstract

**58** Claims

**59** References Cited

**60** Foreign Patent Documents

**61** Claims, 4 Drawing Sheets

**FIG. 1**

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EAST Browser - L5: (8) SHOELACE WIT... | US 5430621 A | Tag: S.T1 | Doc: 5/8 [SORTED] | Format: KWIC

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L5: (8) SHOELACE WIT... | US 5430621 A | Tag: S.T1 | Doc: 5/8 [SORTED] | Format: KWIC

Referring now to FIG. 6, a second embodiment 100 of the illuminatable shoelace device is shown. The illuminatable shoelace device 100 is similar to the illuminatable shoelace device 10 shown in FIG. 4 and the same reference numbers have been used where appropriate. The main difference between the illuminatable shoelace device 100 and the illuminatable shoelace device 10 being a second LED 102 installed on the circuit board 48. The LED 50 may be a first, such as red, and the second LED 102 may be a second color such as yellow. When movement is detected by the motion sensor 72 of the illuminatable shoelace device 100, LED 50 and LED 102 would emit light and different color lights would be transmitted through the sections 58 and 60. Additionally, LED 50 and LED 102 may be the same color. Also, a plurality of light emitting diodes may be employed instead of LED 50 and LED 102. The plurality of light emitting diodes may be of the same color or different colors. Each one of the plurality of light sources is coupled to at least one of the fiber optic strands.

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	Document ID	Kind Codes	Source
1	US 6397497 B1		USPAT
2	US 5701688 A		USPAT
3	US 5639244 A		USPAT
4	US 5562457 A		USPAT
5	US 5430621 A		USPAT
6	US 5240418 A		USPAT
7	US 5209667 A		USPAT
8	US 4193214 A		USPAT

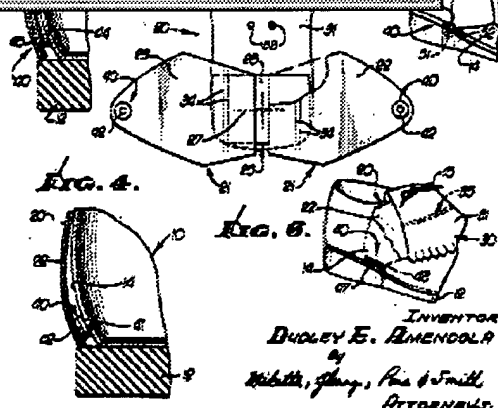
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Another example of where the removable decorative shoe cover of this invention would be useable is with golf shoes or other shoes which must necessarily be used in grass and dirt, but which must be kept attractive in appearance despite such use. The more expensive golf shoes are made in two colors, usually white or some other light color and some dark color such as black, brown or blue. After having walked for several hours around the golf course, the shoes are spotted and dirty with mud and grass stains. To clean the stains from two tone shoes, each shoe must be washed and each of the colors thereon polished separately and carefully to bring the shoe back to the desired attractive appearance. However, if the second color were provided by a removable decorative covering according to this invention, the second color could be easily removed. Then, the entire shoe could be washed and polished one color, while the entire cover was separately washed and separately polished its own color before the cover was reattached to the polished shoe to produce the attractive appearing two tone golf shoe.

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	Document ID	Kind Codes	Source
1	US 6151715 A		USPAT
2	US 5985383 A		USPAT
3	US 5947845 A		USPAT
4	US 5766704 A		USPAT
5	US 3601909 A		USPAT

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BSPR:

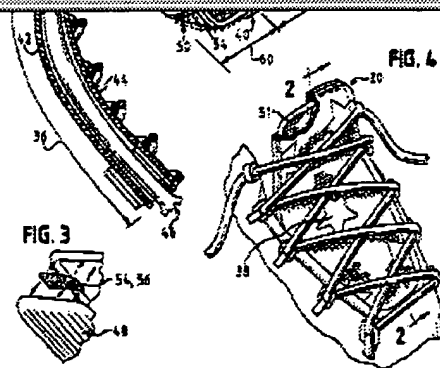
Likewise, another patent that suffers from the inherent shortcomings of the previous patent is U.S. Pat. No. 5,701,688 to Crowley entitled "Protective Shoelace Cover". This patent discloses another shoelace cover that is detachably secured to the upper portion of a shoe which is provided with mating fasteners permanently adhered to the exterior of the shoe. The shoelace cover is provided with a translucent window to permit the shoelaces to be seen, particularly if the shoelaces are of different colors, and to provide a medium within the shoelace cover to provide a decorative emblem or feature. In addition to the shortcomings previously enumerated, although this patent eliminates one piece from the previous patent to display the decoration on footwear, it still requires the use of two separate pieces: the mating fasteners on the shoe and the shoelace cover.

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	Document ID	Kind Codes	Source
1	US 6397497 B1		USPAT
2	US 5701688 A		USPAT
3	US 5639244 A		USPAT
4	US 5562457 A		USPAT
5	US 5430621 A		USPAT
6	US 5240418 A		USPAT
7	US 5209667 A		USPAT
8	US 4193214 A		USPAT

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Likewise, another patent that suffers from the previous patent is U.S. Pat. No. 5,701,688 to "Shoelace Cover". This patent discloses another detachably secured to the upper portion of a shoe fasteners permanently adhered to the exterior of is provided with a translucent window to permit particularly if the shoelaces are of different within the shoelace cover to provide a decorative addition to the shortcomings previously enumerated eliminates one piece from the previous patent to footwear, it still requires the use of two separate fasteners on the shoe and the shoelace cover.

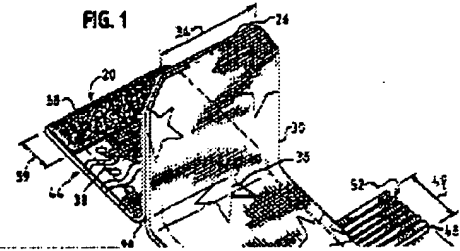
U.S. Patent

Jun. 4, 2003

Sheet 1 of 2

US 6,397,497 B1

FIG. 1





L5: [8] SHOELACE WIT... | US 5240418 A | Tag: S | Doc: 6/8 (SORTED) | Format: KWIC

DEBK:

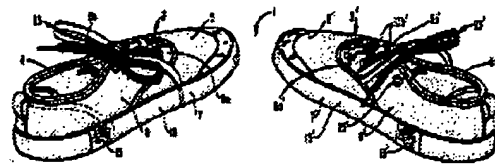
As can be seen in FIG. 4, shoelace 23 is preferably bi-colored, end portion 29 being formed with one color and end portion 31 being formed with a different color. Shoelace 23' is formed in a similar manner. Thus, shoelaces 23 and 23' are specifically adapted for use with the lacing system of the instant invention as described above and as shown in FIG. 2. Various methods are extant for fabricating the bi-colored shoelaces for use in the present invention. These methods include forming the shoelaces by joining together two lengths of differently colored fabric and subsequently forming tips on the free ends thereof, or merely coloring at least one end portion of the shoelace to be a different color than the other end by silk screening, dying or some other coloring process. In a preferred method for forming these shoelaces, two shoelaces of different colors, each having tips formed thereon, are cut in half and the differently colored halves are joined together. This last described method is preferred since it provides a shoelace which has the feel and appearance of a shoelace for adults, thereby making it more appealing to

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	Document ID	Kind Codes	Source
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3	US 5639244 A		USPAT
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6	US 5240418 A		USPAT
7	US 5209667 A		USPAT
8	US 4193214 A		USPAT

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DEPK:

As can be seen in FIG. 4, shoelace 23 is preferred being formed with one color and end portion 31 color. Shoelace 23' is formed in a similar manner are specifically adapted for use with the lacing invention as described above and as shown in FIG. extant for fabricating the bi-colored shoelaces invention. These methods include forming the shoelaces of different lengths of differently colored fabric and subsequent ends thereof, or merely coloring at least one end a different color than the other end by silk screening coloring process. In a preferred method for forming shoelaces of different colors, each having tips and the differently colored halves are joined together. This method is preferred since it provides a shoelace appearance of a shoelace for adults thereby making

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	Document ID	Kind Codes	Source
1	US 6397497 B1		USPAT
2	US 5701688 A		USPAT
3	US 5639244 A		USPAT
4	US 5562457 A		USPAT
5	US 5430621 A		USPAT
6	US 5240418 A		USPAT
7	US 5209667 A		USPAT
8	US 4193214 A		USPAT

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# United States Patent

Elverson et al.

Patent Number: 5,240,418  
Date of Patent: Aug. 11, 1993

LEARNING AIDS FOR CHILDREN  
Inventors: Arthur Elverson, Bardsdale, N.Y.,  
Elise Wamstetter, Orem, Utah  
Assignee: Orem Inc., Bardsdale, Utah  
Appl. No.: 08/581,311  
Filed: Mar. 4, 1993  
Int. Cl. G09B 23/00  
U.S. Cl. 404/399, 404/311  
Field of Search: 404/399, 404/311, 404/312, 404/313, 404/314, 404/315, 404/316, 404/317, 404/318, 404/319, 404/320, 404/321, 404/322, 404/323, 404/324, 404/325, 404/326, 404/327, 404/328, 404/329, 404/330, 404/331, 404/332, 404/333, 404/334, 404/335, 404/336, 404/337, 404/338, 404/339, 404/340, 404/341, 404/342, 404/343, 404/344, 404/345, 404/346, 404/347, 404/348, 404/349, 404/350, 404/351, 404/352, 404/353, 404/354, 404/355, 404/356, 404/357, 404/358, 404/359, 404/360, 404/361, 404/362, 404/363, 404/364, 404/365, 404/366, 404/367, 404/368, 404/369, 404/370, 404/371, 404/372, 404/373, 404/374, 404/375, 404/376, 404/377, 404/378, 404/379, 404/380, 404/381, 404/382, 404/383, 404/384, 404/385, 404/386, 404/387, 404/388, 404/389, 404/390, 404/391, 404/392, 404/393, 404/394, 404/395, 404/396, 404/397, 404/398, 404/399, 404/400, 404/401, 404/402, 404/403, 404/404, 404/405, 404/406, 404/407, 404/408, 404/409, 404/410, 404/411, 404/412, 404/413, 404/414, 404/415, 404/416, 404/417, 404/418, 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L575: (9) 574 AND SHOE... | US 4094029 A | Tag: S | Doc: 8/9 (SORTED) | Format: FULL

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 4094029 A	June 13, 1978	N/A	000	N/A

INT-CL\_(IPC): A43D005/00; A44B017/00 ; F16G011/00

ABSTRACTED-PUB-NO: US 4094029A

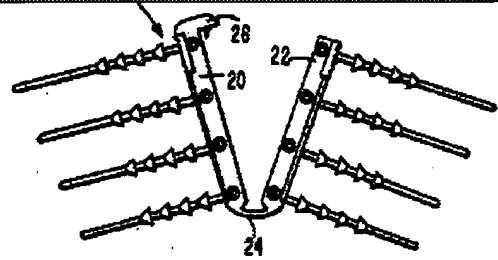
BASIC-ABSTRACT: The fastener (12) which takes place of the conventional shoelace, is a single integrated component formed from an injection moulded polyamide resin or other plastic material, which is reasonably flexible and elastic can be moulded in various colours or dyed after moulding. The fastener (12) has a pair of longitudinal carrier portions (20), (22) which have a thickness and width to produce relatively rigid carriers for the fastener. A hinge such as resilient arcuate band (24) joins the bottom ends of the carriers (20, 22).

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	Document ID	Kind Codes	Source
1	JP 2001046109 A		JPO
2	US 3906642 A		EPO
3	JP 2001321204 A		DERWENT
4	DE 20111713 U		DERWENT
5	US 5924221 A		DERWENT
6	US 5639244 A		DERWENT
7	JP 03070505 A		DERWENT
8	US 4094029 A		DERWENT
9	US 3906642 A		DERWENT

Details
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L Number	Hits	Search Text	DB	Time stamp
1	2	LACE WITH LIGHT WITH COLOR AND DARK WITH COLOR	USPAT	2002/06/19 09:09
2	197	SHOE WITH LACE AND COLOR	USPAT	2002/06/19 09:09
3	22	(SHOE WITH LACE AND COLOR ) AND (LIGHT WITH COLOR)	USPAT	2002/06/19 09:10
4	5	((SHOE WITH LACE AND COLOR ) AND (LIGHT WITH COLOR) ) AND (DARK WITH COLOR)	USPAT	2002/06/19 09:18
5	8	SHOELACE WITH DIFFERENT WITH COLORS	USPAT	2002/06/19 09:44
7	0	(SHOELACE WITH DIFFERENT WITH COLORS ) AND (DARK WITH COLOR)	USPAT	2002/06/19 09:30
6	1	(SHOELACE WITH DIFFERENT WITH COLORS ) AND (LIGHT WITH COLOR)	USPAT	2002/06/19 09:33
8	353950	SHOELACE WITH DARK COLOR OR COLOUR	USPAT	2002/06/19 09:34
9	77578	(SHOELACE WITH DARK COLOR OR COLOUR ) AND (LIGHT WITH COLOR)	USPAT	2002/06/19 09:35
10	815	((SHOELACE WITH DARK COLOR OR COLOUR ) AND (LIGHT WITH COLOR)) AND SHOE	USPAT	2002/06/19 09:36
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